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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/248,980	02/12/1999	NAOTO ABE	862.2678	9424

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EXAMINER

LANEAU, RONALD

ART UNIT	PAPER NUMBER
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2674

DATE MAILED: 03/19/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/248,980

Applicant(s)

ABE, NAOTO

Examiner

Ronald Laneau

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 February 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 51-57 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 51-57 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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Continued Prosecution Application

1. The request filed on 2/4/03 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/248,980 is acceptable and a CPA has been established. An action on the CPA follows.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 51-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Honbo et al (5,677,725) in view of Ochi et al (US 5,666,132).

Honbo et al teach an image forming apparatus comprising a pulse modulation signal generator 104 for generating a pulse width modulation signal based on a clock signal and an image signal, a clock signal wherein said clock is provided with a memory for storing a plurality of data and said clock is arranged to generate the clock signal in accordance with one of the items of data read from the memory in synchronism with a reference clock signal (col. 1 line 56 to col. 2, line 10, col. 11, lines 3-17, figs. 2, 17). Honbo et al do not teach a display panel for displaying an image but Ochi et al teach a display panel 914 capable of displaying an image.

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It would have been obvious to one of ordinary skill in the art to utilize the display panel taught by Ochi et al into the device of Honbo et al because it would allow a user to actually see the final image after all the process being done.

As per claim 52, Honbo et al teach flip-flops that can latch data from the memory but neither Honbo et al nor Ochi et al teach a counter for counting and the reference clock signal. It would have been obvious to one of ordinary skill in the art to utilize a counter as claimed because it would implement the screen address sequencing for the displayed image.

As per claim 53, Honbo et al teach flip-flops 303,304 connected for storing the data and outputting data in series as the clock signal in synchronism with the reference clock as claimed (col. 9, lines 26-32, fig. 12).

As per claim 54, the controller taught by Honbo et al is capable of selecting one of a plurality of data for the system as claimed (see fig. 1).

As per claim 55, neither Honbo et al nor Ochi et al teach an apparatus wherein the data is for performing an inverse gamma conversion but this is a well known feature in the graphics display art to utilize a data for gamma inversion as claimed.

As per claim 56, Honbo et al teach an image forming apparatus and method for performing halftone image by pulse-width modulation. It is understood that the data used in Honbo et al's device can actually improve the tonality of image data at low luminance as claimed.

4. Claim 57 is rejected under 35 U.S.C. 103(a) as being unpatentable over Honbo et al (5,677,725) in view of Ochi et al (US 5,666,132) in further view of Ono et al (US 6,278,234).

As per claim 57, the same rejection to claim 51 applies. Neither Honbo et al nor Ochi et al teach a display panel comprising a vacuum container which accommodates a substrate on which a plurality of electron sources are provided but Ono et al show that the concept of having a display panel with a vacuum container to accommodate a substrate on which a plurality of electron sources are provided and an image forming member for forming an image by electrons by the plurality of electrons sources is old (col. 1, line 52 to col. 2, line 13).

It would have been obvious to one of ordinary skill in the art to utilize this concept as disclosed by Ono et al because it would provide an image-forming apparatus that is substantially free from degradation with time of the brightness of the image being displayed on it (col. 5, lines 13-17).

Response to Arguments

5. Applicant's arguments with respect to claims 51-57 have been considered but are moot in view of the new ground(s) of rejection.

6. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 308-9051, (for formal communications; please mark "EXPEDITED
PROCEDURE")

Or:

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(703) 305-308-6606, (for informal or draft communications, please label
"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA.,
Sixth Floor (Receptionist).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald Laneau whose telephone number is (703) 305-3973. The examiner can normally be reached on Monday-Friday from 8:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.



Ronald Laneau

Examiner

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March 14, 2003